

**01378480 ORADELL RESERVOIR AT ORADELL, NJ**

HACKENSACK RIVER BASIN

LOCATION.--Lat 40°57'23", long 74°01'46" referenced to North American Datum of 1983, Oradell Borough, Bergen County, NJ, Hydrologic Unit 02030103, at dam on Hackensack River at Oradell.

DRAINAGE AREA.--113 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--December 1922 to current year.

REVISED RECORDS.--WDR NJ-84-1: Spillway elevation, WDR NJ-89-1: Capacity, WDR NJ-99-1: 1998 (elevation, contents).

GAGE.--Water-stage recorder, owned and operated by United Water New Jersey. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Records provided by United Water New Jersey.

REMARKS.--Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level, 3,507,000,000 gal, elevation, 23.16 ft. Flow regulated by seven sluice gates (7 by 9 ft). Prior to May 1990, water was released for diversion by United Water New Jersey, 1 mi downstream from dam for municipal supply. Water is presently diverted from reservoir at Haworth by United Water New Jersey, for municipal supply (see 01378478).

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft <sup>3</sup> /s
September	15.57	1,711	
October	17.66	2,161	+22.5
November	18.25	2,294	+6.9
December	20.94	2,929	+31.7
CALENDAR YEAR 2007			-2.3
January	17.02	2,021	-45.3
February	23.22	3,523	+80.1
March	23.07	3,481	-2.1
April	21.04	2,953	-27.2
May	20.33	2,780	-8.6
June	15.51	1,698	-55.8
July	17.43	2,111	+20.6
August	16.13	1,830	-14.0
September	20.88	2,915	+55.9
WATER YEAR 2008			+5.1